	Application No. Applicant(s)			
	10/644,853	HATORI, NOBUAKI	HATORI, NOBUAKI	
Notice of Allowability	Examiner	Art Unit		
	Scott B. Geyer	2829	A	
The MAILING DATE of this communication and All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-INOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 85) or other appropriate comm RIGHTS. This application is	n this application. If not include unication will be mailed in due	ed course. <b>THIS</b>	
1. $\boxtimes$ This communication is responsive to <u>an election filed 9-</u>	<del>-21-04</del> .			
2. 🔀 The allowed claim(s) is/are <u>1-14</u> .				
3. $\boxtimes$ The drawings filed on <u>21 August 2003</u> are accepted by	the Examiner.			
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents hear.</li> <li>2.  Certified copies of the priority documents hear.</li> <li>3.  Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	ave been received. ave been received in Application	on No	tion from the	
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the req	quirements	
5. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which (			OTICE OF	
6. CORRECTED DRAWINGS (as "replacement sheets") r	nust be submitted.			
(a) including changes required by the Notice of Draftsp		w ( PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	·			
(b) ☐ including changes required by the attached Examin Paper No./Mail Date	er's Amendment / Comment o	r in the Office action of		
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such			back) of	
7. DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT	posit of BIOLOGICAL MAT	ERIAL must be submitted. N	Note the	
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-94	8) 6. 🗌 Interview S	oformal Patent Application (PTC	D-152)	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date 0803</li> </ol>	B/08), 7. Examiner's	/Mail Date Amendment/Comment		
4. ☐ Examiner's Comment Regarding Requirement for Depos	it 8. ⊠ Examiner's	Statement of Reasons for Allo	wance	
of Biological Material	9. 🗌 Other			

### **DETAILED ACTION**

### Election/Restrictions

Applicant's election of claims 1-14 in the reply filed on September 21, 2004 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

# **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Information Disclosure Statement

The references cited within the IDS, filed on August 21, 2003, have been considered.

# **Drawings**

The drawings submitted by the applicant on August 21, 2003 are acceptable.

# Allowable Subject Matter

Claims 1-14 are allowed.

The following is an examiner's statement of reasons for allowance. The prior art of record and to the examiner's knowledge does not teach or render obvious, at least to the skilled artisan, the instant invention regarding the method of manufacturing a semiconductor laser, particularly characterized by the steps of forming concave and convex portions on a semiconductor layer and forming an active layer in which quantum dots are arranged three-dimensionally only on the insides of the concave portions, as

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recited in independent claim 1; and a method of manufacturing a semiconductor laser, particularly characterized by forming grooves in a semiconductor layer, and forming quantum dots in the bottom portions between the grooves by utilizing a difference in lattice constants, as recited in independent claim 5. Claims 2-4 are dependent upon claim 1 and claims 6-14 are dependent upon claim 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The following references are cited as being particularly related to the applicant's invention: Mukai et al. (6,815,242), Bensahel et al. (6,596,555) and Yoshida et al. (5,113,473).

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott B. Geyer whose telephone number is (571) 272-1958. The examiner can normally be reached on weekdays, between 10:00am - 6:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Tokar can be reached on (571)272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

11/12/04

**SBG** 

November 12, 2004

PRIMARY EXAMINER